

GEOLOGY OF NORTH TINTIC

John H. McChrystal of the Gemini Mine Makes Report.

OF INTEREST TO OWNERS

NEW IRON MINE BEING OPENED IN SEVIER COUNTY.

George Adams, manager of the Damar-Northwest property, which lies north of the Bullion-Beck and Gemini mines, has issued in pamphlet form a report on the property by John H. McChrystal, which, in view of the diversity of opinion that has long existed concerning the course of the mammoth ore channel which crosses Eureka gulch from south to north, together with Mr. McChrystal's well known ability and knowledge of the geology of this part of Tintic district, is of particular interest.

Mr. McChrystal is one of the shareholders in the great Gemini, and thoroughly conversant with its workings and the course of its ore bodies. The Gemini is the northernmost of the big producers, and it is conceded that conditions in this mine should indicate what may be expected to the north, i. e., the probable course of the ore channel.

In his report Mr. McChrystal says the limestone in the portion of the mine named has a general strike of about north 12 degrees 30 minutes east, and dips easterly at about 10 degrees. The east side is flanked by a wide belt of rhyolite overlying in place, intruding into the lime zone. To the east adjoining is a huge dyke of quartzite forming the foot wall of the broad lime zone. Quoting Towner & Smith, page 678, Geology and Mining Industry of Tintic District:

"The most pronounced fractures trend north and south and this is the general direction of all the ore bodies, and portions of the large ore bodies, which follow the other fractures, so that as a result there is no fracture direction known which does not at some place carry ore or vein matter, as contrasted with the main direction of the ore bodies, however, these others form only a small part."

The fracturing of the sedimentary rocks has resulted from the dynamic action, which deformed the stratified rocks of the Tintic mountains, and was greatest before the mineralization of these rocks, for the ore bodies follow every fissure direction known.

The late Professor F. S. Hunt, an eminent writer of geology and leading authority on formation in the famous Eureka Hill-Bullion-Beck case in 1884, in referring to the ore bodies making in the cross fissures as compared with the ore bodies in the fractures along the beds, said: "The alloys are wider than the fractures, and the latter developments have fully verified his statement. A plan of the workings of the Gemini and Bullion-Beck mines shows a network of several hundred ore systems connected at nearly right angles by cross fissures containing higher values. This condition is prevalent at a vertical depth of over 250 feet."

LELAND GOLD MINES.

Arizona Property Financed by Salt Lake Turned Out Big.

Of the great Leland gold property in Mojave county, Arizona, which was taken over by the Salt Lake Turned Out Big, the Kingman Times says:

"Not to be behind in the matter of rich ore the Leland mine last week opened up a splendid body of ore in the mine below the lower tunnel on that property. This ore is said to have a width of three feet and the values are somewhere around \$1,000 per ton. While possibly the entire three feet will not give this large value, it is presumed that the average of the ore will be very high. The ore is free milling, the gold being in a condition that can be readily saved on plates."

The tunnels on the property reach a depth of 800 feet under the apex of the vein and this with the vein opens the mine to a depth of about 600 feet, showing a continuous body of ore to that depth and of great length. From the portal of the drift to the breast there is scarcely a break in the vein, although in some places the values may become lower. In the main the values remain high enough to make practically every part of the vein taken out in the work of development to run through the mill at a profit. Ore that will mill \$4 to the ton can be handled at a profit. On the north side of the mountain the tunnel is being pressed forward to a connection with the tunnel from the south side, and as soon as connection is made the rich ores in that section of the mine can be run to mill. It is reported that splendid bodies of ore have been opened up in that part of the mine, but owing to their inaccessibility at the present time these ores cannot be taken to mill. For this reason work is being rushed on the tunnel to a connection. About 400 feet now remains to be cut. This mine is one of the great properties of the coast."

WOODRIVER MINER'S NERVE.

Works Nineteen Years Single-Handed and Finally Strikes It.

James W. Butch, who lives about sixteen miles from Hailey, up the east fork of the Woodriver, has struck it rich. He has ten inches of high-grade ore in his lowest adit, at a distance of 480 feet from the portal, says the Woodriver Times.

Mr. Butch has been working on his claim nineteen years. For that length of time he has worked alone, excepting during one or two seasons, when he employed help. Owning a ranch, with a few chickens, two or three cows and five or six horses, he ranched during the summer to get the means with which to pay his bills and to work in winter.

IDAHO MINES SOLD.

Lucky Boy Group, Near Muldoon, to Be Put on Paying Basis.

It is reported that John Peterson, part owner and manager of the Comet and Navarino group of mines, has purchased Peter Wolter's Lucky Boy group of three claims, near Muldoon, says the Woodriver Times.

This is one of the well known properties of this region, as it has yielded several carloads of shipping ore, and it has long been believed that only a reasonable quantity of development work was required to make it a big property.

NEW FACTOR IN COPPER.

Ladd Metals Company Reducing Seven Devils Ore to Matte.

(Grangeville Free Press.)

The Ladd Metals company, a Portland, Ore., concern, is doing extensive work in their smelter and reduction works at Montreal, on the Snake river, in Idaho. Their plant is on the east bank of the Snake, forty miles below Huntington, Ore. They own a valuable copper property known as the Iron Dyke mines. The Ladd Metals company are not treating any of their own ore at present. They have bought all the ore on the dumps of the Mining hopes Continued mines in the

Seven Devils mining district. The copper matte runs from 15 to 20 per cent copper. They have already shipped seven carloads of copper matte to Salt Lake City. The company is at present employing 125 men and will increase the force in April.

RICHFIELD MINING NEWS.

Opening Iron Mine South of Monroe—Nearing Ledge in Holland.

Richfield, Jan. 24.—R. Luker of Elstern is developing an iron vein south of Monroe which gives indications of becoming an important property. The vein is about four feet wide, with indications of increasing. The ore is of the finest quality and he is making arrangements with some of the smelting companies of Salt Lake to handle the ore, as it has been found it will pay to ship.

A. H. Erickson and H. N. Hayes left for Frisco this week to inspect the Golden Reef, as there has been some good ore uncovered at that mine of late. They will also inspect some other properties in which they are interested in and around that country before returning home.

Three shifts are kept steadily employed at the Sevier Consolidated mine at Kimberley, blocking out ore and developing the mine. Arrangements are being made to have the mill ready to start in the spring.

Work will be resumed on the Keystone soon. Manager Pidd will come down from Ogden in a few days for this purpose.

Messrs. McCullough and Newton, who are developing the Sorenson property, south of Monroe, are having satisfactory results. Assays run high in the spring.

A car and some tracking have been shipped to the Smith & Ross group, on the Fish creek side of Gold mountain. Preparations to begin work in the early spring are being made.

H. G. Snyder, who was down from the Holland mine this week, reports that the force of men driving the tunnel is making rapid progress and has now reached the ground where the vein matter is beginning to appear.

NEVADA MINES SAMPLED.

Experts Are Determining Value of Mismanaged Ely Properties.

(White Pine News.)

Fred M. Bradley of the Bunker Hill and Sullivan mines of Coeur d'Alene, Ida., and prominently identified with the Treadwell (Alaska) Mining company has spent the past week here in company with J. H. McKenna, former superintendent of Stratton's Independence mine at Cripple Creek, and M. L. Requa, president of the E. & P. railroad and general manager of the White Pine Copper company, in thoroughly examining and sampling the surface and underground developments of the latter company's property here.

Having concluded the above examination, the party spent two days at Copper flat, where they subjected the property of the New York & Nevada Copper company to a most rigid examination, and also looked into the water rights, smelter, smelter sites and agricultural land belonging to the New York people. The purpose of this examination was to satisfy a majority of the stockholders that a change in the financial condition of the treasury and good mine management on the part of the directors are the only essentials required to place the proposition on a productive basis.

STRIKE IN THE LIBERAL.

New Ledge Opened in Old Idaho Property.

Woodriver Times.)

Clark Stanton came in yesterday from the Liberal group of mines, on the Willow Creek and Little Smoky divide, bringing the news of a new strike in that property of Major Fred R. Reed. The strike was made a few days ago, in the face of the deep tunnel, 750 feet from the portal and 250 feet from the vein in the property before known to exist in the property. Also at a depth from the surface of 500 feet.

Mr. Stanton brought in some specimens from the new find. One is a chunk about ten inches long and four thick, shows iron pyrites that usually carry gold, and it has the appearance of good ore. It is soft and is easily and almost looks like croppings. How much of it there is Mr. Stanton cannot say. The ten pounds of samples that he brought in are being preserved in the Reed, Grand hotel, New York, today.

Mr. Stanton says that the road is fairly good, as he made the thirty miles in about nine hours, yet stopped two hours for dinner.

CENTENNIAL-EUREKA OUTPUT.

Greater Than That of Any One Mine in the District.

Eureka, Jan. 24.—The Centennial-Eureka mine sent out the largest shipment of ore the past week that has ever left the district from one mine in that time. It consisted of fifty-nine forty ton cars, all loaded to their full capacity, containing 2,260 tons. During the first week in January forty-three cars were shipped, followed by fifty-eight the second week and thirty-nine cars the third week, a total for three weeks of 160 cars, containing 6,400 tons.

In the Star mine a cave was opened this week above the 300-foot level which is thirty-five feet wide and about twice that extent in length. The cave occurs in the ore channel and is but a widening of the big fissure from which many thousands have been taken. The top of the cave is a big body of quartz, and there is little doubt but that it will be found to contain the same splendid values that have made the mine famous.

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This is one of the well known properties of this region, as it has yielded several carloads of shipping ore, and it has long been believed that only a reasonable quantity of development work was required to make it a big property.

Mr. Peterson has lately bought the property he is undoubtedly putting upon a paying basis within a short time, because he is a thorough miner, an experienced superintendent and an excellent manager. This is demonstrated by what he did at the Comet and Navarino. Taking hold of them last spring when they seemed not very promising, he has, despite great difficulties, demonstrated them to be of great value, and is rapidly putting them in condition to pay dividends.

Mining Notes.

The figure of a miner, carved from a block of Coeur d'Alene ore, mounted upon a pedestal of copper and lead ore weighing many tons, will be a feature of Idaho's exhibit in the palace of

mines and metallurgy at the world's fair. This unique statue will be contributed by the mine operators of the Coeur d'Alene.

Idaho World: The shaft on the ledge of the Blue Bell, one of the claims of the Gold Coin company, is now down seventy feet. The ore continues good. The pay vein is twenty-inches wide.

White Pine News: The McKinley company has made the second payment of \$2,500 on the purchase price of the Aurora group of five mines, which adjoin the Saxton on the southwest. The claims are owned by Thomas Rockhill, J. B. Williams and W. B. Graham.

The minority shareholders of the Eagle & Blue Bell company will hold a meeting this afternoon to see what can be done toward securing representation on the board of directors, from which they were omitted when the Bingham company bought the control.

Challis Messenger: Colonel James A. McPadden returned one day last week from Salt Lake, where he had been down to get the deed in escrow for the Yankee Fork mining property, which was cancelled on Jan. 1, the Hartford company failing to make a payment on the mine on that date of \$5,000, so the colonel is again in possession of the property. He says the mine is looking good and there is a good body of high-grade ore in the lower workings. There is a scarcity of miners in the camp, he informs us. At least fifteen good miners could find employment at the Yankee Fork mine.

Harold A. Titum, associate of John Hays Hammond, in representing the Guggenheim Exploration company of Boston, Mass., says the White Pine News, has spent the past week there making a thorough expert examination of the workings and holdings of the New York and Nevada Copper company at Copper Flat. What conclusion the gentleman arrived at we are not in a position to state, as he was very reticent concerning the purpose of his visit here, but it is authoritatively stated that Mr. Titum was surprised as well as favorably impressed with the magnitude of the properties. He leaves this morning for Salt Lake.

SUIT OVER RICH MINE.

Amount Involved Is Over Half a Million.

Chicago, Jan. 24.—Three suits for a total of \$500,000 have been filed in the circuit court against P. N. Anderson of this city. Nels O. Hultberg, a plaintiff in one of the suits, seeks to recover \$300,000, while Dora Adams and Hannah Hultberg ask for \$150,000 each.

Back of the suits, according to the defendant, is a story which had its beginning in the Alaskan gold fields in 1898. When the rush for Alaska and the Yukon was at its height Anderson was one of the first to arrive in Nome, and after prospecting for some time, located and flooded a claim known as the White Star property. He incorporated the White Star Mining company, with a capital stock of \$80,000. In 1900 he is said to have sold his holdings in the company for more than \$1,000,000 and returned to the United States.

Nelson O. Hultberg, his wife and his niece, Miss Dora Adams, claim to have been the original prospectors at the White Star mine, and Hultberg asserts that he struck gold in sufficient quantities to warrant working it and returned to Nome to his parents with the land agent. He was delayed for some time in reaching Nome, and when he did apply at the government office he learned that Anderson had already filed his claim.

HIS MIND UNBALANCED.

Suicide of a Sheriff of Tillamook County, Ore.

Tillamook, Ore., Jan. 24.—Henry H. Alderman, sheriff of Tillamook county, shot and instantly killed himself today. The sheriff has been severely ill for more than a month, and in addition to his physical troubles he has become involved in a dispute with accountants over an alleged discrepancy in the county's books and which led to a warrant being issued last night for his arrest. In his weakened state the worry evidently unsettled Mr. Alderman's mind temporarily. Sheriff Alderman leaves a large estate, besides a heavy life insurance.

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SCOTTISH RITE MASONS.

(Special to The Herald.)

Cheyenne, Wyo., Jan. 24.—The sixth reunion of Wyoming Consistory No. 1, Scottish Rite Masons, closed last evening with a reception, ball and banquet. Fifty-nine candidates received degrees up to and including the thirty-second, and three others were given a portion of the work. Wyoming consistory now numbers 300 members, and despite the fact that the temple was destroyed a year ago and was rebuilt at great expense, is in a flourishing condition.

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